

CLAIM AMENDMENTS

Please amend Claim 4 as follows.

1. - 2. (Cancelled)

3. (Withdrawn) An image reading apparatus comprising:
a light source for applying light to an image;
moving means for moving a unit including at least said light source;
photoelectric converting means for converting reflected light of the
light source applied to an original into a voltage;
analog-digital converting means for converting an analog signal
outputted from said photoelectric converting means into a digital signal; and
a plurality of amplifying means for amplifying a signal outputted
from said analog-digital converting means; and
switch means provided in a power source supplying part of
predetermined one of the amplifying means, for effecting ON/OFF-control according to a
reading mode.

4. (Currently Amended) An image reading apparatus having a first
mode for high resolution reading and a second mode for high gradation reading, said
apparatus comprising:
a light source adapted to apply light to an original image;
a movable reading unit adapted to convert reflected light of said
light source applied to the original image into a voltage;

a moving unit adapted to move a reading position of said reading

unit at a speed which is the same for the first mode for high resolution reading and the second mode for high gradation reading;

 a generator adapted to generate a driving signal for said reading unit, said signal having patterns which are varied in accordance with said reading modes, wherein a frequency of the driving signal in the second mode for high gradation reading is lower than a frequency of the driving signal in the first mode for high resolution reading, and an accumulation time of each of pixels of the driving signal in the second mode for high gradation reading is longer than an accumulation time of each of pixels of the driving signal the driving signal in the first mode for high resolution reading; and

 a converter adapted to convert analog signals from said reading unit to a digital signal having a plurality of numbers of bits, wherein a number of bits in the second mode for high gradation reading is ~~lower~~ higher than a number of bits in the first mode for high resolution reading.

5. (Previously Presented) An image reading apparatus according to Claim 4, wherein said reading unit includes a CCD, and the driving signal includes a charge transfer clock signal and a reset clock signal of the CCD.

6. (Previously Presented) An image reading apparatus according to Claim 5, wherein the driving signal further includes a clock signal to sample a signal for the CCD and a clock signal to sample a reference level.

7. (Previously Presented) An image reading apparatus according to Claim 4, wherein the moving unit moves a carriage unit including said light source and said reading unit with a motor.

8. (Previously Presented) An image reading apparatus according to
Claim 4, further comprising a processor adapted to execute a shading correction to a digital
signal output from said converter.